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PATENT
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Washington, D.C. 20231

By: _____

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

JEFF GRAY *et al.*

Application No.: Unassigned

Filed: Herewith

For: EVOLVING TRANSFECTION EFFICIENCY OF VECTORS BY RECURSIVE RECOMBINATION (As Amended)

Examiner: Unassigned

Art Unit: Unassigned

PRELIMINARY AMENDMENT

Box Patent Application
Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examination of the above-referenced application, please enter the following amendments and remarks.

IN THE SPECIFICATION

On page 1, after the title of the invention, and before the first paragraph entitled "STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH," please insert the following paragraph:

-- CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a divisional of, and claims the benefit of priority from, co-pending U.S. Patent Application Serial No. 09/158,180, filed September 21, 1998, the full disclosures of which are incorporated herein by reference in its entirety. --

IN THE CLAIMS

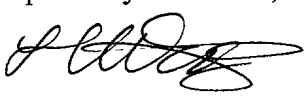
Please cancel claims 14-31 without prejudice. For ease of reference, claims pending with entry of this amendment is shown in the attached Appendix.

REMARKS

With entry of this Preliminary Amendment, claims 1-13 are pending in the application. Also, the specification has been amended to insert a reference to the priority application. No new matter has been introduced.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned attorney at 650-326-2400 x 5209.

Respectfully submitted,



Hugh Wang
Reg. No. 47,163

Attachment: Pending claims after entry of this amendment

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Appendix: Claims pending with entry of this amendment

1. A method of diagnosing infection of a mammal by a Cryptosporidium species, the method comprising:

contacting a stool sample obtained from the mammal with a capture reagent which binds to Cryptosporidium protein disulfide isomerase, wherein the capture reagent forms a complex with the protein disulfide isomerase if the protein disulfide isomerase is present in the stool sample; and

detecting whether protein disulfide isomerase is bound to the capture reagent, wherein the presence of protein disulfide isomerase is indicative of Cryptosporidium infection of the mammal.

2. The method of claim 1, wherein the protein disulfide isomerase comprises an amino acid sequence at least ten consecutive amino acids of which are substantially identical to a subsequence of an amino acid sequence AWFCGTNEDFA KYASNIRKVAADYR EKYAFVF (SEQ ID NO: 3).

3. The method of claim 2, wherein the protein disulfide isomerase has an amino acid sequence that is substantially identical to the amino acid sequence of SEQ ID NO: 2.

4. The method of claim 1, wherein the capture reagent comprises an antibody which binds to protein disulfide isomerase.

5. The method of claim 4, wherein the antibody is a recombinant antibody.

6. The method of claim 5, wherein the antibody is a recombinant polyclonal antibody.

7. The method of claim 6, wherein the recombinant polyclonal antibody is SCPc.4.PC.

8. The method of claim 1, wherein the capture reagent is immobilized on a solid support.

9. The method of claim 8, wherein the capture reagent is immobilized on the solid support prior to contacting the capture reagent with the test sample.

10. The method of claim 1, wherein the detection of the protein disulfide isomerase is performed by contacting the protein disulfide isomerase with a detection reagent which binds to the protein disulfide isomerase.

11. The method of claim 10, wherein the detection reagent comprises an antibody which binds to protein disulfide isomerase.

12. The method of claim 10, wherein the detection reagent comprises a detectable label.

13. The method of claim 12, wherein the detectable label is selected from the group consisting of a radioactive label, a fluorophore, a dye, an enzyme, and a chemiluminescent label.